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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/016,603	10/30/2001	Toshiya Nakamura	450100-03565	6532
20999	7590 06/28/2004		EXAMINER	
FROMMER LAWRENCE & HAUG			DEBERADINIS, ROBERT L	
745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151		ART UNIT	PAPER NUMBER	
1.2 1011	,		2836	

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/016,603	NAKAMURA, TOSHIYA	
Office Action Summary	Examiner	Art Unit	
	Robert DeBeradinis	2836	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the corresp ndence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the searned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a repon. a reply within the statutory minimum of thirty (period will apply and will expire SIX (6) MONTH statute, cause the application to become ABAI	ly be timely filed 30) days will be considered timely. 1S from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on general files 2a) This action is FINAL. 2b) Since this application is in condition for all closed in accordance with the practice under the condition of the closed in accordance with the practice under the closed in accordance with the closed in accordance with the practice under the closed in accordance with the closed in accordance with the closed in the closed	This action is non-final. owance except for formal matter	• •	
Disposition of Claims			
4) ☐ Claim(s) 1 and 5 is/are pending in the app 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	ndrawn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Exam 10) ☑ The drawing(s) filed on <u>03 October 2001</u> is Applicant may not request that any objection to Replacement drawing sheet(s) including the country of the oath or declaration is objected to by the	s/are: a) accepted or b) objoint the drawing(s) be held in abeyance orrection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu	nents have been received. nents have been received in App priority documents have been re ureau (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
* See the attached detailed Office action for a	ilist of the certified copies not re	ceived.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) 🔲 Interview Sun	nmary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	B) Paper No(s)/N	Mail Date rmal Patent Application (PTO-152)	

DETAILED ACTION

The reply filed 4/5/04 consists of amending claims 1, 5, canceling claims 2-4, 6-8 and remarks related to rejection of claims.

The amended abstract of the disclosure submitted on 4/5/04 is approved.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over SUZUKI 5,811.895 in view of TSUJIKADO 6,597,074 in further view of SCHEEL 6,351,401 and HIRATA 4,441,148.

Regarding claims 1, 5

SUZUKI discloses a switching power supply section (14) for receiving a DC voltage as an input voltage at a primary side thereof, switching the inputted DC voltage and generating a stabilized output DC voltage at a secondary side thereof isolated from the primary side (11a); and a current detection section (column 5, lines 40-68) for generating a detection signal in response to supply current to said switching power supply section; said current detection section generating the detection signal isolated from the primary side.

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SUZUKI also discloses controlling FET switch 20, to control the charging and discharging of battery (13), with a dedicated processor (column 4, lines 7-23).

SUZUKI does not disclose conveying the detection signal to equipment (15) connected to the secondary side of said switching power supply section or a primary side capacitor for smoothing an output voltage from said rectification section or photocoupler having a photodiode and a phototransistor.

TSUJIKADO discloses conveying detection of power switch activation (24) to equipment (12) for selecting power supplied by battery (abstract).

SCHEEL discloses smoothing capacitor C sub g for smoothing an output voltage from rectification section (2).

HIRATA discloses a current detector including a photo-coupler having a photodiode and a phototransistor (figure 3d).

It would have been obvious to one having ordinary skill in the art at the time of this invention to modify SUZUKI to convey the detection signal to equipment (15) connected to the secondary side of said switching power supply section and to add a smoothing capacitor to smooth the voltage coming from the rectification section and to couple the current detector to the primary side through a photo-coupler. The motivation would be to provide the selection means for selecting power from the battery during shutdown of the system load when the system load includes a computer. The motivation for the smoothing capacitor would be to remove ripple that might cause the current detection section to generate a false synchronization pulse. The motivation to use a photo-coupler in the current detector would be to isolate the current detection logic from

the primary side voltage to protect the low logic circuits from the higher voltage on the primary side.

Response to Arguments

The Applicant argues that TSUJIKADO was filed on April 18, 2001 and the application, on the other hand, has claimed priority under 35 U.S.C. 119 based upon foreign application 2000-333570 filed on October 31, 2000 in Japan. The Applicant is correct TSUJKADO'S filing date is noted to be April 18, 2001, however TSUJIKADO has foreign priority data that takes the reference back to April 18, 2000.

The Applicant argues that the sited references for the above rejection does not disclose a primary side capacitor for smoothing an output voltage from said rectification section and therefore the application is distinguishable over the sited art. The Examiner believes it would have been obvious to add a smoothing capacitor.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Robert L.

DeBeradinis whose number is (703) 306- 5857. The Examiner can normally be reached Monday-Friday from 8:30 am to 5:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Brian Sircus, can be reached on (703) 308-31190. The Fax phone number for this Group is (703) 308-7722.

RLD

JUNE 23, 2004

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